

Title (en)
ENZYMATIC METHOD FOR PREPARATION OF UDP-GALACTOSE

Title (de)
ENZYMATISCHES VERFAHREN ZUR HERSTELLUNG VON UDP-GALACTOSE

Title (fr)
PROCÉDÉ ENZYMATIQUE POUR LA PRÉPARATION D'UDP-GALACTOSE

Publication
EP 3874055 B1 20230614 (EN)

Application
EP 20776210 A 20200930

Priority

- EP 19207016 A 20191105
- EP 2020077396 W 20200930

Abstract (en)
[origin: EP3819381A1] The present invention relates to an enzyme-catalyzed process for producing UDP-galactose from low-cost substrates uridine monophosphate and D-galactose in a single reaction mixture. Said process can be operated (semi)continuously or in batch mode. Further, said process can be adapted to produce galactosylated molecules and biomolecules including saccharides, proteins, peptides, glycoproteins or glycopeptides, particularly human milk oligosaccharides (HMO) and (monoclonal) antibodies.

IPC 8 full level
C12P 19/30 (2006.01); **C12N 9/10** (2006.01); **C12N 9/12** (2006.01); **C12N 9/14** (2006.01); **C12N 11/08** (2020.01); **C12N 11/087** (2020.01); **C12P 19/18** (2006.01); **C12P 21/00** (2006.01)

CPC (source: CN EP US)
C12N 9/1077 (2013.01 - CN EP); **C12N 9/1205** (2013.01 - CN EP US); **C12N 9/1229** (2013.01 - CN EP US); **C12N 9/1241** (2013.01 - CN EP US); **C12N 9/14** (2013.01 - CN EP); **C12N 11/08** (2013.01 - CN EP); **C12N 11/087** (2020.01 - CN EP); **C12P 19/18** (2013.01 - CN EP); **C12P 19/305** (2013.01 - CN EP US); **C12P 21/005** (2013.01 - CN EP); **C12Y 207/01006** (2013.01 - CN EP US); **C12Y 207/04001** (2013.01 - CN EP US); **C12Y 207/04014** (2013.01 - CN EP US); **C12Y 207/04022** (2013.01 - CN EP); **C12Y 207/07009** (2013.01 - CN EP US); **C12Y 306/01001** (2013.01 - CN EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3819381 A1 20210512; CA 3158485 A1 20210514; CA 3158485 C 20240409; CN 114641577 A 20220617; CN 114641577 B 20230623; EP 3874055 A1 20210908; EP 3874055 B1 20230614; EP 3874055 C0 20230614; ES 2956019 T3 20231211; JP 2023501310 A 20230118; JP 7464707 B2 20240409; US 11739358 B2 20230829; US 2022389469 A1 20221208; WO 2021089251 A1 20210514

DOCDB simple family (application)
EP 19207016 A 20191105; CA 3158485 A 20200930; CN 202080076813 A 20200930; EP 2020077396 W 20200930; EP 20776210 A 20200930; ES 20776210 T 20200930; JP 2022525883 A 20200930; US 202017755650 A 20200930